

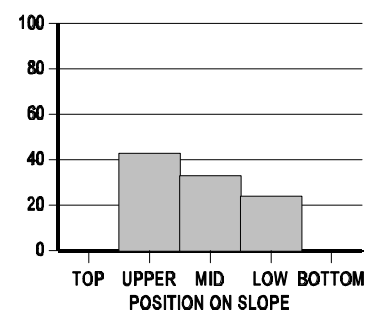
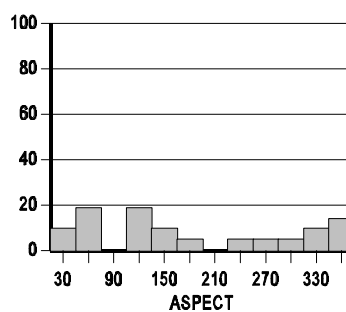
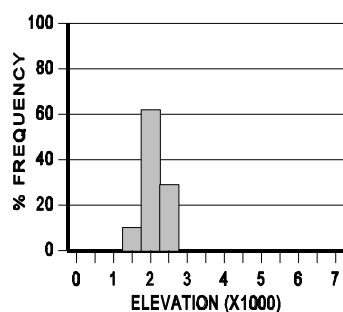
DOUGLAS-FIR/HUCKLEBERRY OAK-PINEMAT MANZANITA/COMMON BEARGRASS
Pseudotsuga menziesii/*Quercus vaccinifolia*-*Arctostaphylos nevadensis*/*Xerophyllum tenax*
 PSME/QUVA-ARNE/XETE (N=21; FS=21)



Distribution. This Association occurs on the Chetco Ranger District, Siskiyou National Forest. Twenty of the 21 plots occurred in the Lemmingsworth Gulch Research Natural Area, but this Association may also occur elsewhere.

Distinguishing Characteristics. This Association is coastal and is the only Douglas-fir Association that occurs exclusively on serpentine and peridotite parent materials. This Association is similar to the Douglas-fir/Pinemat Manzanita Association, except huckleberry oak is present in this Association, generally with high covers. This is the wettest Douglas-fir Association.

Soils. Parent material is serpentine (80 percent constancy) and peridotite (20 percent constancy). Surface gravel cover averages 20 percent and surface rock cover averages 42 percent. Exposed bedrock averages 1 percent. Bare ground averages 4 percent, while litter averages 64 percent.



Environment. Elevation averages 2110 feet. Aspects vary. Slope averages 45 percent and ranges from 26 to 64 percent. Slope position ranges from the lower one-third to the upper one-third.

Vegetation Composition and Structure. Total species richness is very high for the Series, averaging 57 species. The overstory is dominated by Douglas-fir. Knobcone pine, western white pine, and Jeffrey pine are common, all with low covers. The understory is dominated by Douglas-fir and California-laurel. Douglas-fir covers are low, while California-laurel covers are high, generally greater than 10 percent. Tanoak (shrub form), huckleberry oak, pinemat manzanita, coffeeberry, red huckleberry, dwarf ceanothus, box-leaved silk-tassel, and baldhip rose are frequent shrubs. In the herb/grass layer, common beargrass, sedge, slender-tubed iris, obscure bedstraw, Oregon trillium, Howell's biscuit-root, common yarrow, yellow inside-out-flower, leafy erigeron, toothleaf pyrola, few-fruited biscuit-root, rock fern, nodding arnica, variable morning-glory, and whipplevine are all frequent, most with low covers. Moss cover averages 5 percent.

Upper layer tree cover has the lowest cover of the Series, averaging 1 percent. Mid-layer tree cover is also low, averaging 27 percent, while lower layer tree cover is high, averaging 56 percent. High shrub cover is low for the Series, averaging 12 percent, while low shrub cover is intermediate, averaging 34 percent. Herb/grass cover is also intermediate, averaging 38 percent.

Common name	Code	Constancy	Cover	Avg. Richness
<u>Overstory trees</u>				3
Douglas-fir	PSME	100	22	
Knobcone pine	PIAT	62	8	
Western white pine	PIMO3	62	2	
Jeffrey pine	PIJE	52	2	
<u>Understory trees</u>				6
Douglas-fir	PSME	100	4	
California-laurel	UMCA	95	11	
Knobcone pine	PIAT	67	2	
Western white pine	PIMO3	67	1	
Jeffrey pine	PIJE	48	1	
<u>Shrubs</u>				9
Pinemat manzanita	ARNE	100	7	
Coffeeberry	RHCA	100	6	
Huckleberry oak	QUVA	95	25	
Tanoak (shrub form)	LIDEE	95	25	
Red huckleberry	VAPA	95	8	
Dwarf ceanothus	CEPU	95	2	
Box-leaved silk-tassel	GABU2	90	2	
<u>Herbs</u>				36
Common beargrass	XETE	100	7	
Sedge species	CAREX	95	3	
Slender-tubed iris	IRCH	95	2	
Obscure bedstraw	GAAM2	90	1	
Oregon trillium	TRRI2	90	1	
Yellow inside-out-flower	VACH2	86	4	